

OK

WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

October 6, 2006

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor *DWH*

FROM: James D. Smith, Environmental Scientist *JS 10/06/06*

RE: 2006 Second Quarter Water Monitoring, PacifiCorp, Cottonwood/Wilberg,
C/015/0019, Task ID # 2645

The Cottonwood/Wilberg Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

There are no springs monitored at this site. WCWR1 at the Waste Rock Site is the only well monitored. The mine was sealed May 10, 2001, so in-mine monitoring sites TMA @ 32 and 2ndS XC-11 are no longer accessible. The pond at the Cottonwood Fan Portal was reclaimed in 2002 so UPDES 22896-002 is no longer reported to DOGM or the Division of Water Quality.

1. Were data submitted for all of the MRP required sites?

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Well	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

DMRs were submitted in electronic format (Adobe). DMR data were submitted to the DOGM database as operational parameters, not as DMR parameters.

2. Were all required parameters reported for each site?

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Well	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

5. Based on your review, what further actions, if any, do you recommend?

Water samples collected during 2006 should continue to be analyzed for 5-year baseline parameters (at least one set per site).

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements? YES ☐ NO ☒

7. Follow-up from last quarter (4th Qtr 2006), if necessary. YES ☐ NO ☒

8. Did the Mine Operator respond adequately to queries about missing or irregular data?

YES ☒ NO ☐

UPDES

YES ☒ NO ☐

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations: "n" is the number of values used to calculate the standard deviation in the Division's database. An asterisk (*) indicates this is not a parameter required by the MRP.

Streams

YES ☒ NO ☐

GWR03, June: Ca (n = 38) and K (n = 38).

Well

YES ☐ NO ☒

UPDES

YES ☒ NO ☐

UT0022896-001, May; Na (n = 131).

4. On what date does the MRP require a five-year resampling of baseline water data.

The next renewal submittal is due 03/06/09 for renewal on 07/06/09. Baseline analyses were performed in 2001 and will be repeated every 5 years, i.e., the next set of baseline analyses is scheduled for 2006.

Fifth-year Baseline Monitoring		
Monitoring Site	1 st Qtr 2006	2 nd Qtr 2006
WCWR1	Yes	Yes
QWR01	No flow	No flow
GWR02	No flow	Yes
GWR03	No flow	Yes
CCC1	Field parameters only	
UPDES-001	Not required	Not required
UPDES-003	Not Required	Not Required
UPDES-004	Not Required	Not Required
UPDES-005	Not Required	Not Required